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## WHAT IS CLAIMED IS:

1. A voltage control apparatus for a vehicle generator comprising:

an input terminal for inputting a voltage of a battery through an ignition switch and a light emitting element connected in series with said ignition switch and driven by a low dissipation power,

a rotor coil of said vehicle generator started in excitation when a voltage at said input terminal exceeds a predetermined value, and

a resistor for limiting a current flowing through said light emitting element disposed between an element within said voltage control apparatus for driving said light emitting element and said input terminal.

2. A voltage control apparatus for a vehicle generator comprising:

an input terminal for inputting a voltage of a battery through an ignition switch and a light emitting element connected in series with said ignition switch and driven by a low dissipation power, and

a rotor coil of said vehicle generator started in excitation when a voltage at said input terminal exceeds a predetermined value, wherein

said light emitting element is lightened by a current

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which is inputted into said input terminal for starting an operation of said voltage control apparatus.

3. The voltage control apparatus for a vehicle generator according to claim 2, wherein

said light emitting element is coupled through said ignition switch to a base terminal of an NPN transistor for starting an operation of said voltage control apparatus so that said light emitting element is turned on by a current flowing into said base terminal.

4. A voltage control apparatus for a vehicle generator comprising:

an input terminal for inputting a voltage of a battery through an ignition switch and a light emitting element connected in series with said ignition switch and driven by a low dissipation power,

a rotor coil of said vehicle generator started in excitation when a voltage at said input terminal exceeds a predetermined value, and

a circuit for detecting the voltage of said input terminal and starting said voltage control apparatus is arranged to be shutdown after said vehicle generator starts electric power generation operation.

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5. The voltage control apparatus for a vehicle generator according to claim 4, wherein

after said circuit for detecting the voltage of said input terminal and starting said voltage control apparatus is shutdown after said vehicle generator starts electric power generation operation, an operation of a starting circuit for said voltage control apparatus is maintained by an output of one phase of said vehicle generator.

- 10 6. The voltage control apparatus for a vehicle generator according to claim 1, wherein
  - a light emitting diode is used as said light emitting element.
- 15 7. The voltage control apparatus for a vehicle generator according to claim 2, wherein
  - a light emitting diode is used as said light emitting element.
- 20 8. The voltage control apparatus for a vehicle generator according to claim 4, wherein
  - a light emitting diode is used as said light emitting element.